

1 1(currently amended). An apparatus for use in analyzing video
2 images, comprising:

3 a video input signal providing a video signal to be analyzed, the video
4 input signal including at least one of successive picture frames and fields
5 containing a video picture;

6 a video processor operable to produce a display of information at least
7 partly from the video input signal;

8 a controller coupled to the video processor and to at least one control
9 input, the controller being operable to control the information displayed by the
10 video processor;

11 wherein the video processor is operable to produce a formatted display
12 of selectable data images for presentation on a display device wherein the
13 formatted display comprises a **changeable** selection of one of:

14 a full representation of the video picture contained in the video
15 input signal, selectively presented so as to occupy at least a portion of a
16 display area of the formatted display;

17 a zoom image including an area of particular scrutiny in said
18 video picture, selectively presented so as to occupy at least a portion of
19 the display area of the formatted display;

20 a report of video data characteristics of at least one point within
21 said area of particular scrutiny;

22 a subset of said full representation, said zoom image and said
23 report; and,

24 wherein the video processor is operable to change the area of
25 particular scrutiny **and said changeable selection of the formatted display,**
26 **when so as to select for video data characteristics meeting predetermined**
27 **criteria are met by said at least one of the successive picture frames and**
28 **fields of the video picture.**

1 2(original). The apparatus of claim 1, wherein the video processor
2 has a plurality of display modes in which at least two of the selectable data
3 images depict the area of particular scrutiny.

1 3(previously presented). The apparatus of claim 2, wherein the video
2 processor has a display mode wherein the full representation of the video
3 picture, the zoom image and the report of said video data characteristics are
4 presented at different parts of the display device and present progressively
5 smaller parts of the area of particular scrutiny.

1 4(original). The apparatus of claim 3, wherein the report includes a
2 tabular display of data respecting pixels at the area of particular scrutiny.

1 5(original). The apparatus of claim 4, wherein the tabular display of
2 data includes sample location information and color sample data.

1 6(original). The apparatus of claim 5, wherein the tabular display of
2 data includes a color swatch demonstrating the color sample data.

1 7(previously presented). The apparatus of claim 1, wherein the video
2 input signal contains a digital video signal with successive picture frames and
3 the video processor produces the formatted display repetitively for increments
4 of at least one frame, from one of discrete sample data and discrete color
5 state elements defining pixels in the video input signal.

1 8(previously presented). The apparatus of claim 1, wherein the video
2 processor produces the formatted display for increments of at least one frame
3 from one of discrete sample data and discrete color state elements defining
4 pixels in the video input signal.

1 9(previously presented). The apparatus of claim 1, wherein the video
2 processor is operable to resize at least part of the video picture for
3 presentation in part of an area of the formatted display that occupies less than
4 a full area of the formatted display, and wherein resizing by the video
5 processor includes at least one of recalculating pixel values, sampling pixel
6 values and reading out selected pixel values.

1 10(previously presented). The apparatus of claim 1, wherein the
2 control input is operable by a user manually to select from the video input
3 signal an area to be the area of particular scrutiny, and wherein the video
4 processor is operable simultaneously to present the video picture and the
5 zoom image including the area of particular scrutiny, in different areas of said
6 formatted display.

1 11(previously presented). The apparatus of claim 1, wherein the video
2 processor allots the formatted display to accommodate said selection.

1 12(previously presented). The apparatus of claim 1, wherein the video
2 processor is operable responsive to the control input to define a selection
3 criteria and automatically to select from the video input signal at least one said
4 area of particular scrutiny based upon data in the video input signal meeting
5 said selection criteria.

1 13(previously presented). The apparatus of claim 12, further wherein
2 the controller and the video processor are operable to coordinate between
3 automatic and manual selection of the area of particular scrutiny, wherein said
4 manual selection supersedes automatic selection at least for a limited period
5 of time.

1 14(original). The apparatus of claim 13, wherein the selection criteria
2 for said automatic selection include a color gamut value criterion having at
3 least one threshold value such that a value meeting the threshold value
4 criterion is selected for particular scrutiny.

Claims 15-17 were previously canceled.

Claims 18-20 are now canceled.

Claims 21-25 were previously canceled.

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